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APPLICANT : DAIDO STEEL CO LTD;

INVENTOR : MATSUDA YUKINORI;

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TITLE : FREE CUTTING COLD WORKING TOOL STEEL

ABSTRACT : PROBLEM TO BE SOLVED: To provide a free cutting cold working tool steel capable of being cut in a prehardened state of $\geq HRC45$ without deteriorating toughness.

SOLUTION: This free cutting cold working tool steel has a composition consisting of, by weight, 0.5-1.6% C, $\leq 3.0\%$ Si, 0.2-2.0% Mn, $\leq 4.0\%$ Ni, >3.0-15.0% Cr, 0.1-8.0% of (2Mo+W), 0.03-0.40% S, 0.0002-0.02% Ca, 0.0002-0.02% O, and the balance essentially Fe.

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